CLAIMS

1. A composition for a flame-retardant flexible polyurethane foam comprising:

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- (A) 100 parts by weight of a polyol component
 5 containing a polyether polyol having at least 2 hydroxyl groups and a number average molecular weight of 2,000 to 5,000;
 - (B) 3 to 50 parts by weight of a melamine-based flame retardant having an average particle diameter of 30 to 60 μm ;
 - (C) 5 to 35 parts by weight of an additive-type phosphorus-containing flame retardant;
 - (D) 0.01 to 2 parts by weight of a catalyst;
 - (E) 0.1 to 10 parts by weight of a blowing agent;
- 15 (F) 0.1 to 3 parts by weight of a silicone foam stabilizer; and
 - (G) a polyisocyanate component in an amount corresponding to an isocyanate index of 90 to 120.
- 2. The composition according to claim 1, wherein the polyol component contains the polyether polyol in an amount of 70% by weight or more, based on the total amount of the polyol component.
- The composition according to claim 1, wherein the melamine-based flame retardant is at least one selected
 from the group consisting of melamine, melamine sulfate, melamine polyphosphate, melamine cyanurate, melamine

resins, and chlorinated melamines.

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- 4. The composition according to claim 1, wherein the silicone foam stabilizer has a surface tension of 20.5 to 22 mN/m at a temperature of 25°C and a silicon atom content not exceeding 4.7% by weight.
- 5. The composition according to claim 1, wherein the additive-type phosphorus-containing flame retardant has a molecular weight of 350 to 600.
- 6. A flame-retardant flexible polyurethane foam produced from the composition according to claim 1, the foam having a bulk density of 25 to 50 kg/m^3 .